Cover Letter

Dear Sir/Madam,

Enclosed please find the Premanufacture Notice (PMN) MS0119 for review.

If there are any questions regarding this submission, please contact the technical contact for this PMN, Devin Millions at 202-819-3747.

Sincerely,

Satoko Matsui



		Form An	proved OMP Nos 2070	0.0012, and 2070 0039
U.S. ENVIRONMENTAL PROTECTION A	AGENCY	ғотт ар	oroved. O.M.B. Nos. 2070	CY USE ONLY
FPΔ	IANUFACTU NOTICE HEMICAL SUBS		Date of receipt:	11/12/2018
When Completed, Send this form to: If sending by Courier: Office of Pollution Prevention and Toxics Document Control Office (7407M) US EPA, 1201 Constitution Ave NW WASHINGTON, D.C. 20460 Contact Numbers: 202-564-8930/8940		nsylvania Ave NW C. 20460	Submissio	n Report Number
Total Number of Pages 28		TS Number MS0119)
You must provide all information requested in this form to the ex Before you complete this form, you should read the "Instructions (TSCA) Information Service by calling 202-554-1404, or faxing 2 If a fee has been remitted for this notice (40 CFR 700.45), indica appear on your corresponding fee remittance. For mailing addre	tent that it is known to Manual for Premanuf 02-554-5603). Ite in the boxes above	AL INSTRUCTIONS or reasonably ascertainable acture Notification" (the Instru	uctions Manual is available from	m the Toxic Substances Control Act
Part I – GENERAL INFORMATION You must provide the currently correct Chemical Abstracts (Name of the new chemical substance, even if you claim the identity as confidential. You may authorize another person to submit chemical identity information for you, but your submit will not be complete and the review will not begin until EPA receives this information. A letter in support of your submits should reference your TS fee identification number. For all Section 5 Notice submissions (paper or electronic) you must submit an original notice including all test data; if you claims information as confidential, an original sanitized copy must submitted.	(CA) You are descript related commer sion be submot sum should a chemical of test of t	tion of all other data know to the health and environ rce, use, or disposal of the nitted for data in the oper umaries of data, must be clearly identify whether to al composition of the test lata and other data. Data	st data in your possession in to or reasonably ascerta mental effects on the man e new chemical substance a scientific literature. Compsubmitted if they do not agist data is on the substanced material should be chain	or control and to provide a ainable by you, if these data are ufacture, processing, distribution in e. Standard literature citations may blete test data (written in English), opear in the open literature. You see or on an analog. Also, the racterized. Following are examples ording to the requirements of Part 720).
Part II – HUMAN EXPOSURE AND ENVIRONMEN RELEASE If there are several manufacture, processing, or use operation be described in Part II, sections A and B of this notice, represent the sections as needed. Part III – LIST OF ATTACHMENTS For paper submissions, attach additional sheets if there is no enough space to answer a question fully, Label each continusheet with the corresponding section heading. In Part III, list attachments, any test data or other data and any optional information included in the notice.	ons to oduce	Environmental fate d Health effects data Environmental effect Physical/Chemical located on the last	s data Properties (A physical and	Other Data Risk Assessments Structure/activity relationships d chemical properties worksheet is
OPTIONAL INFORMATION You may include any information that you want EPA to consevaluating the new substance. On page 11 of this form, spate been provided for you to describe pollution prevention and recycling information you may have regarding the new subsemore "Binding" boxes are included throughout this form for you to indicate your willingness to be bound to certain statements make in this section, such as use, production volume, prote equipment The intention is to reduce delays that routine accompany the development of consent orders or Significar Use Rules. Checking a "binding" box in a PMN does not by prohibit the submitter from later deviating from the informati (except chemical identity) reported in the form; however, in case of exemption applications (such as TMEA, LVE, LORE certain information provided in such notifications is binding submitter when the Agency approves the exemption applicates especially if the production volume "binding" box is chosen LVE.	stance. you ctive ly itself on the EX) on the attion,	PMN (Premanufactur SNUN (Significant No TMEA (Test Marketir LVE (Low Volume Ex	ew Use Notice) ng Exemption Application) cemption) @ 40 CFR 723.	
CONFIDENTIALITY CLAIMS You may claim any information in this notice as confidential assert a claim on the form, mark (X) the confidential box ne the information that you claim as confidential. To assert a claim attachment, circle or bracket the information you claim a confidential. If you claim information in the notices as confidential so provide a sanitized version of the notice, (incattachments). For additional instructions on claiming information confidential, read the Instructions Manual.	xt to laim in s lential, luding	Mark (X) if pending IS THIS A CONSOLI # of chemicals or p. 3).	, ,	munication # required, enter # on med as confidential.



IN2018P2

The public reporting and recordkeeping burden for this collection of information is estimated to average 93 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed EPA Form 7710-25 to this address.

PMN Page 2

CERTIFICATION -- A printed copy of this signature page, with original signature, must be submitted with CD or paper submission.

I hereby certify to the best of my knowledge and belief that all information entered on this form is complete and accurate. I further certify that, pursuant to 15 U.S.C. § 2613(c), for all claims for protection for any confidential information made with this submission, all information submitted to substantiate such claims is true and correct, and that it is true and correct that the person submitting the claim has:

- (i) taken reasonable measures to protect the confidentiality of the information;
- (ii) determined that the information is not required to be disclosed or otherwise made available to the public under any other Federal law
- (iii) a reasonable basis to conclude that disclosure of the information is likely to cause substantial harm to the competitive position of the person; and
- (iv) a reasonable basis to believe that the information is not readily discoverable through reverse engineering.

Any knowing and willful misrepresentation is subject to criminal penalty pursuant to 18 U.S.C. § 1001.

Additional Certification Statements:

If you are s statement the	-	MN, SNUN, LoREX, LVE, or TMEA, check the f	following	Fees Certification	
		med in Part I, Section A is a "small business concern" as 40 CFR 700.45(c).	defined ur	nder 40 CFR 700.43 and will	remit the
X	The Company nan	ned in Part I, Section A will remit the fee as specified in 40	CFR 700.4	45(c).	
Low Relea		w Volume Exemption (LVE) application in active statements:			
		submitting this notice intends to manufacture or import the			al purposes,
	The manufacture	r is familiar with the terms of this section and will comply w	ith those te	erms; and	
	The new chemica	al substance for which the notice is submitted meets all app	plicable ex	emption conditions.	
		is for an LVE in accordance with 40 CFR 723.50(c)(1), the estance for commercial purposes within 1 year of the date of			
					Confidential
Signature and Authorized Of		ES/Satoko Matsui	Date	11/12/2018	

Signature Required)



Secti	ion A	A – SUBMITTER ID	ENTIFICAT		GENE	KAL I	NFORMATION			
4 -						t to any	subsection you clai	m as co	onfidential	Confidential
1a.	of A	Person Submittir	(first) Satok	in U.S).)		(last)		4	Confidential
Positio		diffortzed Official					Matsu	İ		
Compa			Not Applica							<u> </u>
		Iress (number & street)	Sanyo Che	mical In	dustries., L	.td.				
`	y Auc	,	11-1,		Ctata		Dantal Carlo			
City 		Kyoto			State	XX	Postal Code	605	-0995	
email		s.matsui@sanyo-chem Agent (if Applica						_		Confidential
b.	of Aı	thorized Official	(first)				(last)			Confidential
Positio		ATTOTIZED CITICIAL								
Compa										
		Irona (number 8 street)								\vdash
	g Auc	dress (number & street)					15 116 1			
City					State	Telepho	Postal Code			
e-mail							area code)			
C.		Joint Submitter (. 1					Confidential
If you	are s	ubmitting this notice as p	, ,	submiss	sion, mark	X)	(last)			
Name	of Au	uthorized Official	(first)				(last)			
Positio	on									
Compa	any		XXX							
Mailing	g Add	dress (number & street)								
City					State		Postal Code			
e-mail				•		Telep (includ	hone de area code)			
2.		Technical Contac	t (in U.S.)							Confidential
Name	of Au	uthorized Official	(first) Devin				(last) Million	S		
Positio	on		Managing S							
Compa	any		Exponent®	, Inc.						
Mailing	g Add	dress (number & street)	1150 Conn	ecticut A	Ave NW, su	ite 1000				
City		Washington	•		State	DC	Postal Code	200	36	
e-mail		dmillions@exponent.co	m		I	Telepho	one e area code)	202	8193747	
		ou have had a prenotice					,		Mark (X) if none	Confidential
3.	ente	notice and EPA assigneer the number.								
		ou previously submitted a mical substance covered							Mark (X) if none	Confidential
4.	exe sub	mption number assigned mitted a PMN for this su	l by EPA. If yo bstance enter	ou previ	ously					
		igned by EPA (i.e. withdi ou have submitted a noti			to				Mark (X) if none	Confidential
5.	mar	nufacture or import for the hotion in the ho	e chemical su	ubstance	e covered					
6.					Туре	of Notic	ce – Mark (X)			
	Mar	nufacture Only		Imp	oort Only					
1.	Bind	ding Option	7 ²	2. Bir	iding Optio	n	\Box	3.	Both	



" PMN Page 4

Part I – GEI	NERAL INFORM	ATION Co	ntinued	
Section B - CHEMICAL IDENTITY INFORMATION:			ct Chemical Abstracts (CA) na clature rules and conventions	
Mark (X) the "Confid	ential" box next to any	y item you claim	n as confidential	
Complete either item 1 (Class 1 or 2 substances) or 2 (F	, , , , ,	•		
If another person will submit chemical identity informatio the name, company, and address of that person in a cor	tinuation sheet.	em 1 or 2), mar	k (X) the box at the right. Ide	ntify
 Class 1 or 2 chemical substances (for definitions of of 2 substances, see the Instructions Manual) 	class 1 and class	Class 1	Class 2	2 CBI
a. Class of substance - Mark (X)				
 Chemical name (Currently correct Chemical Abstractions substances. For Class 1 substances a CA Index Name Preferred Name must be provided, which ever is approximately provided. 	ne must be provided.	For Class 2 sub	ostances either a CA Index Na	ame or CA
		7		
CAS Registry Number (if a number already exists for	the substance)			
c. Please identify which method you used to develop or		chemical identit		
Method 1 (CAS Inventory Expert Service - a copy of Identification report obtained from the CAS Inventory Services must be submitted as an attachment to this	Expert	IES Order Number	Method 2 (Other Source)	
Enter Attachment filename for Part I, Section B, 1. c.				
d. Molecular formula				
For a class 1 substance, provide a complete and correpresentative or partial chemical structure diagram,				
Enter Attachment filonome for Part I Section B 1 o		İ		



PMN Page 4a

SANITIZED SUBMISSION

For a class 2 substance - (1) List the immediate precursor substances with their respective CAS Registry Numbers. (2) Describe the nature of the reaction or process. (3) Indicate the range of composition and the typical composition (where appropriate).	Confidential
e. (1) List the immediate precursor substance names with their respective CAS Registry Numbers.	
Enter Attachment filename for Part I, Section B, 1. e. (1)	
e. (2) Describe the nature of the reaction or process.	
Enter Attachment filename for Part I, Section B, 1. e. (2)	
e. (3) Indicate the range of composition and the typical composition (where appropriate).	
Enter Attachment filename for Part I, Section B, 1. e. (3)	



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PMN2018P5X1	PMN Page 5			SAN	NI IIZEL	J SUBIVIIS	SION
	t I GENERAL INFORMATION TITY INFORMATION Continued	l – Coi	ntinued				
2. Polymers (For a definition of polymer,	see the Instructions Manual.)					Confide	ntial
Indicate maximum weight percent of	of the lowest molecular weight composition of the low molecular weight species (not including resistance molecular weight of that composition.					X	
De	scribe the methods of measurement or the basis	for your e	estimates:				
	r (Specify Below)				1		
Specify Other:				V			
(i) lowest number average molecular weight:	(ii) maximum weight % below 500 molecula weight:	ar (iii) maximum w	veight % be weight		00 molecu	lar
XXX	xxx	X	xx				
Enter Attachment filename for Par	t I, Section B, 2. a. Sanitized Document ity claims for monomer or other reactant identity,			` '		Χ	
manufacture of the polymer. (2) - Mark (X) this column if entry in a (3) - Indicate the typical weight perce (4) - Choose "yes" from drop down in the polymer description on the (5) - Mark (X) this column if entries in	ent of each monomer or other reactant in the pol- nenu if you want a monomer or other reactant us TSCA Chemical Substance Inventory. In columns (3) and (4) are confidential. Percent of each monomer or other reactant that murposes.	ymer. sed at two	weight percent	t or less to	be liste	ed as part o	of
	eactant specific chemical name	0.00	Typical	Include in	001	Max	
	(1)	(2)	composition (3)	identity (4)	CBI (5)	residual (6)	CBI (7)
XXX CAS Registry Number (1)	xxx	X	xxx		X	xxx	X
XXX		Х	XXX		Х	XXX	Х
CAS Registry Number (1)	xxx				, ,	7001	
XXX	1^^^	X	XXX		Х	XXX	Х
CAS Registry Number (1)	xxx						
XXX	I WW	Х	XXX		Х	XXX	Х
^^^			^^^		^	^^^	
CAS Registry Number (1)	xxx						
XXX		X	XXX		Х	xxx	X
CAS Registry Number (1)	XXX					<u> </u>	
Mark (X) this box if the data continues of	n the next page.					X	



2018P5X1-1 PMN Page 5 (1)

	t I GENERAL IN			Con	tinued				
Section B CHEMICAL IDENT 2. Polymers (For a definition of polymer,			ed					Confider	ntial
Indicate the number-average weight Indicate maximum weight percent of below 500 and below 1,000 absolute.	of the lowest molecular we low molecular weight speci	ight compositi es (not includ							itiai
·	scribe the methods of meas	•	e basis for y	our es	timates:				
	(Specify Below)						-		
Specify Other:						V			
(i) lowest number average molecular weight:	(ii) maximum weight %	% below 500 r ight:	nolecular	(iii) maximum w	eight % be weight		00 molecu	lar
Enter Attachment filename for Parb. You must make separate confidential	•								
(X) the "Confidential" box next to any ite (1) - Provide the specific chemical n manufacture of the polymer. (2) - Mark (X) this column if entry in (3) - Indicate the typical weight perc (4) - Choose "yes" from drop down r the polymer description on the (5) - Mark (X) this column if entries i (6) - Indicate the maximum weight p manufactured for commercial p (7) - Mark (X) this column if entry in	m you claim as confidential ame and CAS Registry Nun column (1) is confidential. ent of each monomer or oth the nenu if you want a monome rSCA Chemical Substance in columns (3) and (4) are coercent of each monomer or urposes.	nber (if a num per reactant in er or other rea Inventory. onfidential.	per exists) of the polymer. ctant used at	two w	monomer or o	other react	ant use	ed in the	
Monomer or other re	eactant specific chemical na	ame		CBI (2)	Typical composition (3)	Include in identity (4)	CBI (5)	Max residual (6)	CBI (7)
XXX CAS Registry Number (1)	NOV.			X	XXX	(4)	X	XXX	X
XXX				Х	XXX		Х	xxx	Х
CAS Registry Number (1)	XXX							1001	
XXX				Х	XXX		Х	XXX	X
CAS Registry Number (1)	XXX								
CAS Registry Number (1)									
CAS Registry Number (1) Mark (X) this box if the data continues o	the next page								



PMN Page 5a

SANITIZED SUBMISSION

T WINZO TOT SAXT		FIVIIN Fay	c Ja		
c. Please identify which method you used to develo (check one).				ation reported in this notice	СВІ
Method 1 (CAS Inventory Expert Service - a copy of the identification report obtained from CAS Inventory Expert Service must be submitted as an attachment to this notice)	X	IES Order Number	434805-1	Method 2 (other source)	
Enter Attachment filename for Part I, Section B, 2	. C.		Sanitized Document: 1	IES Order Results 434805	X
d. The currently correct Chemical Abstracts (CA) n polymers.	name for the	e polymer that	is consistent with TSCA	Inventory listings for similar	X
XXX			5		
CAS Registry Number (if a number already ex	rists for the	substance)	XXX		
Provide a correct representative or partial chem ascertained.	nical structu	ure diagram, as	s complete as can be known	own, if one can be reasonably	X
See Attachment (Sanitized Document: 2 Chemical)					
Enter Attachment filename for Part I, Sec	ction B. 2. e	9. Sanitiza	ed Document: 2 Chemic	al Structura Diagra	X



PMN Page 6 Part I -- GENERAL INFORMATION -- Continued

Section B CHEMICAL IDENTITY INFORMATION Continued		
 Impurities (a) - Identify each impurity that may be reasonably anticipated to be present in the chemic purpose. Provide the CAS Registry Number if available. If there are unidentified impurities, (b) - Estimate the maximum weight % of each impurity. If there are unidentified impurities, 	rities, enter "unidentified." estimate their total weight %.	
Impurity (a)	CAS Registry Maximo Percent (a) (b)	
	5	
Mark (X) this box if the data continues on the next page.		
Enter Attachment filename for Part I, Section B, 3.		
4. Synonyms - Enter any chemical synonyms for the new chemical identified in subsection 1 or 2. XXX		X
Enter Attachment filename for Part I, Section B, 4.		
5. Trade identification - List trade names for the new chemical substance identified in subsection XXX	1 or 2.	X
Enter Attachment filename for Part I, Section B, 5.		
 Generic chemical name - If you claim chemical identify as confidential, you must provide a generate specific chemical identity of the new chemical substance to the maxim Substance Inventory, 1985 Edition, Appendix B for guidance on development of the providence of the providence of the maxim Substance Inventory, 1985 Edition, Appendix B for guidance on development of the providence of the pro	num extent possible. Refer to the TSC oping generic names.	
Enter Attachment filename for Part I, Section B, 6.		
 Byproducts - Describe any byproducts resulting from the manufacture, processing, use, or disp CAS Registry Number if available. 		
Byproduct (1)	CAS Registry Numb (2)	er Confi- dential
Mark (X) this box if the data continues on the next page.		



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PMN2018P5X2		N Page		C	(!.aal				
Section B CHEMICAL IDEN	art I GENERAL INI			Con	unuea				
Polymers (For a definition of polymers) Indicate the number-average weight indicate maximum weight percent below 500 and below 1,000 absolutions.	ht of the lowest molecular weigh of low molecular weight species	ht composit s (not includ						Confide	
,	Describe the methods of measur	-	ne basis for y	our es	timates:				
GPC Oth	er (Specify Below)								
Specify Other:									
(i) lowest number average molecular weight:	(ii) maximum weight % weigh		molecular	(iii) maximum w	veight % be		00 molecu	lar
XXX	xxx			XXX					
Enter Attachment filename for P		Sanitized Do	ocument: 5 G		ta of UX-320	(2)_Red		Χ	
manufacture of the polymer. (2) - Mark (X) this column if entry i (3) - Indicate the typical weight pe (4) - Choose "yes" from drop dowr the polymer description on th (5) - Mark (X) this column if entries (6) - Indicate the maximum weight manufactured for commercial (7) - Mark (X) this column if entry i	rcent of each monomer or other n menu if you want a monomer or e TSCA Chemical Substance In s in columns (3) and (4) are con percent of each monomer or of purposes.	or other rea nventory. nfidential.	ctant used a	t two w					of
	reactant specific chemical nam	ne		CBI	Typical composition	Include in	СВІ	Max residual	СВІ
	(1)			(2)	(3)	(4)	(5)	(6)	(7)
XXX CAS Registry Number (1) XXX			Х	XXX		Х	XXX	X
XXX	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			Χ	XXX		Χ	XXX	Х
CAS Registry Number (1) XXX			Х	XXX		Х	XXX	Х
	. Lyon			^	7000		, ,	7000	
CAS Registry Number (1) XXX			V	2001		V	1001	\ \ \
XXX				Х	XXX		Х	XXX	X
CAS Registry Number (1) XXX	-							
XXX				Х	XXX		Х	xxx	X
CAS Registry Number (1	, [<u> </u>	
Mark (X) this box if the data continues	on the next page.							X	



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PMN2018P5X2-1	PMN Page	5 (1)			OAI	VIIIZEE	OODIVIIO	DION
Par Section B CHEMICAL IDENT	t I GENERAL INFORMA		Cont	inued				
2. Polymers (For a definition of polymer,	see the Instructions Manual.)						Confide	ntial
	of the lowest molecular weight composition molecular weight species (not include molecular weight of that composition.	ition of the poly ding residual r	nonom	ou intend to liers, reactant	manufactu s, or solve	re. nts)		
	scribe the methods of measurement or t	the basis for yo	our est	imates:			<u> </u>	
	r (Specify Below)					7		
Specify Other:								
(i) lowest number average molecular weight:	(ii) maximum weight % below 500 weight:	molecular	(iii)	maximum w	eight % be weight		00 molecu	lar
Enter Attachment filename for Part b. You must make separate confidentiali	·							
manufacture of the polymer. (2) - Mark (X) this column if entry in c (3) - Indicate the typical weight perce (4) - Choose "yes" from drop down m the polymer description on the T (5) - Mark (X) this column if entries in (6) - Indicate the maximum weight per manufactured for commercial pure	ent of each monomer or other reactant in nenu if you want a monomer or other rea FSCA Chemical Substance Inventory or columns (3) and (4) are confidential. hercent of each monomer or other reactal surposes.	n the polymer. actant used at	two w	eight percent	or less to	be liste	d as part o	of
(7) - Mark (X) this column if entry in o				Typical	Include in		Max	
Monomer or other re	eactant specific chemical name (1)		CBI (2)	composition (3)		CBI (5)	residual (6)	CBI (7)
XXX CAS Registry Number (1)	xxx		X	XXX	(' '	X	xxx	X
XXX	, AAA		Х	XXX		Χ	XXX	Х
	Lynn			7001		,	7000	
CAS Registry Number (1)	XXX		Х	XXX		Х	XXX	X
			^	^^^		^		
CAS Registry Number (1)	XXX							
CAS Registry Number (1)								
CAS Registry Number (1)								
Mark (X) this box if the data continues or	n the next page.							



PMN2018P5AX2	PMN Pag	e 5a	SANITIZE	ED SUBMISSION
lease identify which method you used to develop or obta eck one).	in the specified	chemical identity info	rmation reported in this notice	CBI
Method 1 (CAS Inventory Expert Service - a copy of the identification report obtained from CAS Inventory Expert Service must be submitted as an attachment to this notice)	IES Order Number	434805-2	Method 2 (other source)	
ter Attachment filename for Part I, Section B, 2. c.		Sanitized Documer	nt: 3 IES Order Results 434805	. X
The currently correct Chemical Abstracts (CA) name for the polymers.	he polymer that			X
		<u>C</u>		
CAS Registry Number (if a number already exists for the Provide a correct representative or partial chemical structure)		XXX complete as can be	known, if one can be reasonable	V V
ascertained. Attachment (Sanitized Document: 4 Chemical Structure				y X



Part I GENERAL INFORMATION Continued
Section B CHEMICAL IDENTITY INFORMATION Continued
3. Impurities

Impurities (a) - Identify each impurity that may be reasonably anticipated to be present in the chemical substance purpose. Provide the CAS Registry Number if available. If there are unidentified impurities, enter (b) - Estimate the maximum weight % of each impurity. If there are unidentified impurities, estimate the maximum weight with the content of the	r "unidentified." neir total weight	2/6.	cial
Impurity (a)	AS Registry Number (a)	Maximum Percent % (b)	Confi- dential
	-		
C			
Mark (X) this box if the data continues on the next page.			
Enter Attachment filename for Part I, Section B, 3.			
4. Synonyms - Enter any chemical synonyms for the new chemical identified in subsection 1 or 2. XXX			X
Enter Attachment filename for Part I, Section B, 4.			
5. Trade identification - List trade names for the new chemical substance identified in subsection 1 or 2. XXX			X
Enter Attachment filename for Part I, Section B, 5.			
Generic chemical name - If you claim chemical identify as confidential, you must provide a generic name to specific chemical identity of the new chemical substance to the maximum extent Substance Inventory, 1985 Edition, Appendix B for guidance on developing gene Hydroxyalkyl carboxylic acid, polymer with alkylamine, alkyl carbonate, alkanediol, isocyanate, compd. with a	possible. Refer ric names.		
Enter Attachment filename for Part I, Section B, 6.			
7. Byproducts - Describe any byproducts resulting from the manufacture, processing, use, or disposal of the CAS Registry Number if available.			
Byproduct (1)		stry Number (2)	Confi- dential
Mark (X) this box if the data continues on the next page.			



1 WINZO TOT 7			raye									
Part I G					N Cc	ntini	ued					
Section C PRODUCTION, IMPORT, AND	USE I	NFORM	IATION				7	_				
The information on this page refers to consolidated				X 1	2		3	<u>4</u>		5	6	
Mark (X) the "Cor 1. Production volume Estimate the maximum production and consecutive 12-month period during For a Low Volume Exemption application, if you of volume and mark (x) in the binding box. If granted	duction vo g the first hoose to	olume dur t three ye have you	ring the first ars of proc r notice re	st 12 moduction.	onths of pro Estimates	oductior should	n. Also o be on 1	estimate 100% ne	w chem	ical sub	stance	basis.
Maximum first 12-month production (kg/yr) (100% new chemical substance basis)					ction (kg/y		G	onfident	tial		ling Opt lark (X)	ion
Enter Attachment filename for Part I, Section C	, 1.									CBI		
Enter Attachment filename for Part I, Section C, 1. 2. Use Information You must make separate confidentiality claims for the description of the category of use, the percent of production volume devoted to each category, the formulation of the new substance, and other use information. Mark (X) the "Confidential" Box next to any item you claim as confidential. a. (1)Describe each intended category of use of the new chemical substance by function and application. (2)Mark (X) this column if entry column (1) is confidential business information (CBI). (3)Indicate your willingness to have the information provided in column (1) binding. (4)Estimate the percent of total production for the first three years devoted to each category of use. (5)Mark (X) this column if entry in column (4) is confidential business information (CBI). (6)Estimate the percent of the new substance as formulated in mixtures, suspensions, emulsions, solutions, or gels as manufactured for commercial purposes at sites under your control associated with each category of use. (7)Mark (X) this column if entry in column (6) is confidential business information (CBI). (8)Indicate % of product volume expected for the listed "use" sectors. Mark more than one box if appropriate. Mark (X) to indicate your willingness to have the use type provided in (8) binding.												as
(9)Mark (X) this column if entry(ies) in column	mn (8) is	(are) con	fidential bu	ısiness	informatio	n (CBI).						ı
Category of use (1) (by function and application i.e. a dispersive dye for	CBI	Binding Option	Prod uction	СВІ	% in Form-	СВІ	% of	substan	(8)	ected pe	er use	СВІ
finishing polyester fibers)	(2)	Mark (X)	% (4)	(5)	ulation (6)	(7)	Site- limited	Con- sumer*	Industrial	Com- mercial	Binding Option	(9)
* If you have identified a "consumer" use, please pro- consumer products. In addition include estimates of the chemical reactions by which this substance loses	the conce	entration o	of the new	chemica	al substan	tion of tl	he use(kpected	s) of this in cons	l s chemic umer pr	cal substoducts	l stance in and des	n scribe
Mark (X) this box if the data continues on the next page		,										
b. Generic use If you claim any category Read the Instruction Mar	of use d					ential, er	nter a g	eneric d	escriptio	on of the	at categ	ory.
Enter Attachment filename for Part I, Section	C, 2. b.								СВ	BI		
3. Hazard Information Include in the notice a copy of data sheet, or other information which will be provide regarding protective equipment or practices for the shazard information you include.	of reasonated to any lafe handi	person wl	ho is reaso	nably li	ikely to be	expose	d to this	s substa	ial safet nce	у	Binding Mark	
Mark (X) this box if you attach hazard information	auoii.						1 1			1	- 1	1



D = 11 1 0			- raye		N 0	4*					4	
Part I G					N CC	ntini	uea					
Section C PRODUCTION, IMPORT, AND							1_	П.	$\overline{}$	_		
The information on this page refers to consolidated				1	X 2		3	<u>4</u>		5	6	
Mark (X) the "Cor 1. Production volume Estimate the maximum production and consecutive 12-month period during For a Low Volume Exemption application, if you of volume and mark (x) in the binding box. If granted	duction vo g the first noose to h	olume dur t three yea have your	ring the first ars of proof r notice re	st 12 moduction. viewed a	onths of pro Estimates	oductior should	n. Also e be on 1	estimate 00% ne	w chem	ical sub	stance	basis.
Maximum first 12-month production (kg/yr) (100% new chemical substance basis)					ction (kg/yr ance basis		Q	onfident	tial		ling Opt lark (X)	
Enter Attachment filename for Part I, Section C	, 1.									CBI		
Enter Attachment filename for Part I, Section C, 1. 2. Use Information You must make separate confidentiality claims for the description of the category of use, the percent of production volume devoted to each category, the formulation of the new substance, and other use information. Mark (X) the "Confidential" Box next to any item you claim as confidential. a. (1)Describe each intended category of use of the new chemical substance by function and application. (2)Mark (X) this column if entry column (1) is confidential business information (CBI). (3)Indicate your willingness to have the information provided in column (1) binding. (4)Estimate the percent of total production for the first three years devoted to each category of use. (5)Mark (X) this column if entry in column (4) is confidential business information (CBI). (6)Estimate the percent of the new substance as formulated in mixtures, suspensions, emulsions, solutions, or gels as manufactured for commercial purposes at sites under your control associated with each category of use. (7)Mark (X) this column if entry in column (6) is confidential business information (CBI). (8)Indicate % of product volume expected for the listed "use" sectors. Mark more than one box if appropriate. Mark (X) to indicate your willingness to have the use type provided in (8) binding.												as
(9)Mark (X) this column if entry(ies) in column	nn (8) is	(are) conf	fidential bu	usiness	informatio	n (CBI).	1					1
Category of use (1) (by function and application i.e. a dispersive dye for	CBI	Binding Option	Prod uction	СВІ	% in Form-	СВІ		I	(8)	· ·		СВІ
finishing polyester fibers)	(2)	Mark (X)	% (4)	(5)	ulation (6)	(7)	Site- limited	Con- sumer*	Industrial	Com- mercial	Binding Option	(9)
		,										
* If you have identified a "consumer" use, please pro- consumer products. In addition include estimates of the chemical reactions by which this substance loses	the conce	entration o	of the new	chemica	al substan	tion of the	he use(kpected	s) of this in cons	chemic umer pr	cal subsoducts	tance in and des	n scribe
Mark (X) this box if the data continues on the next page		,									Г	1
b. Generic use If you claim any category description Read the Instruction Mar	of use d					ential, er	nter a g	eneric d	escriptio	on of tha	at categ	ory.
Enter Attachment filename for Part I, Section	C, 2. b.								СВ	 Bl		1
3. Hazard Information Include in the notice a copy of data sheet, or other information which will be provide regarding protective equipment or practices for the shazard information you include.	of reasona d to any p afe handi	person wl	ho is reaso	onably li	ikely to be	expose	d to this	substa	ial safet nce	у	Binding Mark	•
Mark (X) this box if you attach hazard information	λιΙΟΠ.						1 1				- 1	1



Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE											
Section A INDUSTRIAL SITES CONTROLLED BY THE SUBMITTER Mark (X) the "Confidential" box r any item you claim as confidential."											
The information on pages 8 and	d 8a refer to	consolidated chemical number(s):	3	4 5	6					
you control. Importers do not l	have to con	ufacture, processing, or use open nplete this section for operations of the processing or use operations and approach of the processing or use operations and the processing or use operations and the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processing or use operations are processed in the processed	s outside the U.S.; howeve	er, you may	still have repor	ing					
	entity of the	e site at which the operation will	occur.			dential					
Name											
Site address (number and street)											
City			County								
State			ZIP code								
sites on a continuation sheet,	and if any	han one site, enter the number of of the sites have significantly diff quested in this section for those	erent production rates or	onal							
Mark (X) this box if the	data continue	es on the next page.									
b. Type Mark (X) Manu	ufacturing	Processing	Us	e [
c. Amount and Duration	Complete	e 1 or 2 as appropriate				Confi- dential					
1. Batch		Maximum kg/batch (100% new chemical substance)	Hours/batch		Batches/year						
	•	Maximum kg/day									
2. Continuous		(100% new chemical substance)	Hours/day		Days/year						
d. Process description			Mark (X) to indicate your with have your process descript								
pails, 55 gallon drum (2) Provide the identity, materials and feedst chemicals (note frequency) (3) Identify by number the	, rail car, tan the approxim ocks (includinuency if not use se points of re	steps and chemical conversions. In ik truck, etc.). hate weight (by kg/day or kg/batch or ng reactants, solvents, catalysts, etc used daily or per batch.). elease, including small or intermitter ne step, assign a second release nu	n a 100% new chemical subs	tance basis) e streams, an	, and entry point ond wastes. Include	of all starting e cleaning					
releasing to the mea	<u></u>	10 010p; 4001gr 4 0000m4 10.0400 ma.									



Diagram of the major unit operation steps.									
Diagram of the major unit operation steps.									
Enter Attachment filename for Part II, Section A, 1. d.									



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PMN2018P9	PMN Page 9)					1
Part II HUMAN	I EXPOSURE AND ENVIRONM	IENTAL I	RELEAS	SE Cor	tinued		
Section A INDUSTRIAL SITES C	ONTROLLED BY THE SUBMIT	TER C	ontinue	d			
The information on pages 9 and 9a refer to	consolidated chemical number(s):	1	2	3	4	5	6
Occupational Exposure You must make substance, number of workers exposed, an (1) Describe the activities (i.e. band).	d duration of activity. Mark (X) the "Con	fidential" bo	x next to a	any item yo	u claim as c	onfidential.	

- (2) -- Mark (X) this column if entry in column (1) is confidential business information (CBI).
 (3) -- Describe any protective equipment and engineering controls used to protect workers.

- (4) and (6) -- Indicate your willingness to have the information provided in column (3) or (5) binding.
 (5) -- Indicate the physical form(s) of the new chemical substance (e.g., solid: crystal, granule, powder, or dust) and % new chemical substance (if part of a mixture) at the time of exposure.
- (7) -- Mark (X) this column if entries in columns (3) and (5) are confidential business information (CBI).
- (8) -- Estimate the maximum number of workers involved in each activity for all sites combined.
- (9) -- Mark (X) this column if entry in column (8) is confidential business information (CBI).

(10) and (11) Estima (12) Mark (X) this c	ate the	e maximum duration of the activity if entries in columns (10) and (1	y for any w 1) are con	fidential busine:	oer day an ss informa	d day tion (rs per yea CBI).	r.			
Worker activity (i.e., bag dumping, filling drums)	ter activity dumping, filling CBI Figure 1		Protective Equipment/ Binding Option Communication Mark (X) Physical form(s) & % new				# of Workers Exposed	СВІ		Duration	CE
(1)	(2)	(3)	Mark (X) (4)	substance (5)	Mark (X) (6)	(7)	(8)	(9)	Hrs/Day (10)	Days/Yr (11)	(12
		3									
		data continues on the next page		0 -	<u> </u>						_
Enter Attachmen	t filena	ame for Part II, Section A on the b	oottom of p	page 9a.							



PMN Page 9a PMN Page 9a

- 3. Environmental Release and Disposal -- You must make separate confidentiality claims for the release number and the amount of the new chemical substance released and other release and disposal information. Mark (X) the "Confidential" box next to each item you claim as confidential.
 - (1) -- Enter the number of each release point identified in the process description, part II, section A, subsection 1d(3).
 - (2) -- Estimate the amount of the new substance released (a) directly to the environment or (b) into control technology (in kg/day or kg/batch).
 - (3) -- Mark (X) this column if entries in columns (1) and (2) are confidential business information (CBI).
 - (4) -- Identify the media (stack air, fugitive air (optional-see Instruction Manual), surface water, on-site or off-site land or incineration, POTW, or other (specify)) to which the new substance will be released from that release point.
 - (5) -- a. Describe control technology, if any, and control efficiency that will be used to limit the release of the new substance to the environment. For releases disposed of on land, characterize the disposal method and state whether it is approved for disposal of RCRA hazardous waste. On a continuation sheet, for each site describe any additional disposal methods that will be used and whether the waste is subject to secondary or tertiary on-site treatment. b. Estimate the amount released to the environment after control technology (in kg/day).
 - (6) -- Mark (X) this column if entries in columns (4) and (5) are confidential business information (CBI),
 - (7) -- Identify the destination(s) of releases to water. Please supply NPDES (National Pollutant Discharge Elimination System) numbers for direct discharges or NPDES numbers of the POTW (Publicly Owned Treatment Works). Mark (X) if the POTW name or NPDES # is confidential business information (CBI).

Release Number	Amount Substance	of New Released	СВІ	Medium of release e.g. Stack air	Cont	rol technology a optionally a	and efficie attach effi	d efficiency (you may wish to each efficiency data)				
(1)	(2a)	(2b)	(3)	(4)		(5a)		Binding Mark (X)	(5b)	(6)		
			•									
		•										
				on the next page.								
(7) Mark	(X) the des	stination(s)	of releas	ses to water.				NPDES	5#	CBI		
	POTWpro name(s)	vide										
	Navigable v - provide na	waterway- ame(s)										
	OtherSpe	cify										
	Enter Attachm	ent filename	for Part II,	Section A.								

SANITIZED SUBMISSION

Part II HUMAN EXPOSURE AND ENVIRONM		L REL	ΕA	SE -	Cont	inue	t	
Section B INDUSTRIAL SITES CONTROLLED BY OTHERS								
The information on pages 10 and 10a refer to consolidated chemical number(s):		1	2		3		4 5	6
The information on pages 10 and 10a refer to consolidated chemical number(s): Complete section B for typical processing or use operations involving the new chemical complete this section for operations outside the U.S.; however, you must report any proceed a separate section B for each type of processing, or use operation involving more than one site describe the typical operation common to these sites. Identify additional confidential. (1) Diagram the major unit operation steps and chemical conversions, including pails, 55 gallon drums, rail cars, tank trucks, etc). On the diagram, including pails, 55 gallon drums, rail cars, tank trucks, etc). On the diagram, including the chemical substance basis), and entry point of all feedstocks (including reast streams, and wastes. Include cleaning chemicals (note frequency if not use). (3) Either in the diagram or in the text field 1(b) below, identify by number the environment of the new chemical substance. (4) Please enter the # of sites (remember to identify the locations of these site).	I substa occessing the new onal sit al, brace og interi by lette e appro- ctants, ed daily points of	ance at s g or use y chemic es on a c cket (e.g im storager and bri ximate w solvents y or per b	ites : actival substitute (included) activately (included) activat	you do vities a vibstan nuatio the s descri t (by k cataly) cluding	o not co after imp ce. If the in sheet pecific in asport co ibe each ag/day co sts, etc.	oort. See same inform ontainen work or kg/ba	mporters do no ee the Instruction of the product of	t have to ons Manual. erformed at claim as g. 5 gallon % new cycle
1(b). (Optional) This space is for a text description to clarify the diagram above.							Confidential	
Enter Attachment filename for Part II. Section B on the bottom of page 10a								



PMN2018P10A

PMN Page 10a

2. Worker Exposure/Environmental Release

- (1) -- From the diagram above, provide the letter for each worker activity. Complete 2-8 for each worker activity described.
- (2) -- Estimate the number of workers exposed for all sites combined.
- (4) -- Estimate the typical duration of exposure per worker in (a) hours per day and (b) days per year.
- (6) -- Describe physical form of exposure and % new chemical substance (if in mixture), and any protective equipment and engineering controls, if any, used to protect workers.
- (7) -- Estimate the percent of the new substance as formulated when packaged or used as a final product.
- (9) -- From the process diagram above, enter the number of each release point. Complete 9-13 for each release point identified.
- (10) -- Estimate the amount of the new substance released (a) directly to the environment or (b) into control technology to the environment (in kg/day or kg/batch).
- (12) -- Describe media of release i.e. stack air, fugitive air (optional-see Instructions Manual), surface water, on-site or off-site land or incineration, POTW, or other (specify) and control technology, if any, that will be used to limit the release of the new substance to the environment.
- (14) -- Identify byproducts which may result from the operation.
 - (3), (5), (8), (11), (13) and (15) -- Mark (X) this column if any of the proceeding entries are confidential business information (CBI).

Letter of Activity	# of Workers Exposed	СВІ	Durat Expo	ion of sure	СВІ	Protecti	ve Equip./Engineering Controls/Physical Form	% new substance	% in Formulation	СВІ			
(1)	(2)	(3)	(4a)	(4b)	(5)		(6)	(6)	(7)	(8)			
				*									
Release Number			Substan	ce Releas	ed	СВІ	Media of Release & Control Technology						
(9)	(10	۱۵۱		(10b)		(11)	(12)						
. ,	,.,	Ja)		(100)		(,	(12)			(13)			
, ,	(1.	Ја)	J	(100)		(,	(12)			(13)			
		Jaj	J	(100)		(1.1)	(12)			(13)			
	(oa)	D	(100)		(.,,	(12)			(13)			
	(1.)	ia)	J	(103)		(1.1)	(12)			(13)			
	(1)	a)		(103)		(1.1)				(13)			
		a)		(103)						(13)			
		a)		(103)						(13)			
	Mark (X) this		e data co		n the nex					(13)			
	Mark (X) this		e data co		n the nex				(15) CBI				



SANITIZED SUBMISSION

OPTIONAL POLLUTION PREVENTION INFORMATION

To claim information in the following section as confidential, bracket (e.g. {}) the specific information that you claim as confidential.

In this section you may provide information not reported elsewhere in this form regarding your efforts to reduce or minimize potential risks associated with activities surrounding manufacturing, processing, use and disposal of the PMN substance. Please include new information pertinent to pollution prevention, including source reduction, recycling activities and safer processes or products available due to the new chemical substance. Source reduction includes the reduction in the amount or toxicity of chemical wastes by technological modification, process and procedure modification, product reformulation, and/or raw materials substitution. Recycling refers to the reclamation of useful chemical components from wastes that would otherwise be treated or released as air emissions or water discharges, or land disposal. Quantitative or qualitative descriptions of pollution prevention, source reduction and recycling should emphasize potential risk reduction in addition to compliance with existing regulatory requirements. The EPA is interested in the information to assess overall net reductions in toxicity or environmental releases and exposures, not the shifting of risks to other media (e.g., air to water) or nonenvironmental areas (e.g., occupational or consumer exposure). To the extent known, information about the technology being replaced will assist EPA in its relative risk determination. In addition, information on the relative cost or performance characteristics of the PMN substance to potential alternatives may be provided.

Describe the expected net benefits, such as

- (1) an overall reduction in risk to human health or the environment:
- (2) a reduction in the generation of waste materials through recycling, source reduction or other means;
- (3) a reduction in the use of hazardous starting materials, reagents, or feedstocks;

(4) a reduction in potential toxicity, human exposure and/or environmental release; or(5) the extent to which the new chemical substance may be a substitute for an existing substance that poses a greater overall risk to human health or the environment.	
Information provided in this section will be taken into consideration during the review of this substance. See PMN Instructions Manual and Pollution Prevention Guidance manual for guidance and examples.	al
and Pollution Prevention Guidance manual for guidance and examples.	
Enter Attachment filenome for Pollution Provention Page 11	
Enter Attachment filename for Pollution Prevention Page 11.	

Part III -- LIST OF ATTACHMENTS

Attach continuation sheets for sections of the form, test data and other data (including physical/chemical properties and structure/activity information), and optional information after this page. Clearly identify the attachment and the section of the form to which it relates, if appropriate. Number consecutively the pages of any paper attachments. In the Number of Pages column below, enter the inclusive page numbers of each attachment for paper submissions or enter the total number of pages for each attachment for electronic submissions. Electronic attachments can be identified by filename.

Mark (X) the "Confidential" box next to any attachment name or filename you claim as confidential. Read the Instructions Manual for guidance on how to claim any information in an attachment as confidential. You must include with the sanitized copy of the

notice form a sanitized version of any attachment in which you claim information as confidential.

# Attachment Name Attachment Filename Number of Pages PMN Section Number 1 Chemical Structure Diagram Chemical Structure Diagram(1)_Redacted.pdf 1 Polymers Identification Substanc Chemical Structure Diagram (UX 2 IES report IES Order Results 434805- 1_Redacted.pdf 1 Polymers Identification Substanc ID Method (UX-320(1)) 3 GPC data GPC data GPC data GPC data GPC data GPC data Structure Diagram (UX 320(1)_Redacted.pdf 1 Polymers Identification Substanc Diagram(2)_Redacted.pdf 1 Polymers Identification Substanc Diagram(2)_Redacted.pdf 1 Polymers Identification Substanc Chemical Structure Diagram (UX IES Order Results 434805- 2_Redacted.pdf 1 Polymers Identification Substanc ID Method (UX-320(2)) 6 GPC data GPC data GPC data of UX- 320(2)_Redacted.pdf 1 Monomers (UX-320(2))	СВ
Diagram(1)_Redacted.pdf Chemical Structure Diagram (UX IES Order Results 434805- 1_Redacted.pdf	02
1_Redacted.pdf ID Method (UX-320(1)) GPC data of UX- 320(1)_Redacted.pdf 1 Monomers (UX-320(1)) Chemical Structure Diagram Chemical Structure Diagram(2)_Redacted.pdf 1 Polymers Identification Substanc Chemical Structure Diagram (UX Diagram(UX Diagram(s
320(1)_Redacted.pdf 4 Chemical Structure Diagram Chemical Structure Diagram(2)_Redacted.pdf 5 IES report IES Order Results 434805- 2_Redacted.pdf 1 Polymers Identification Substanc Chemical Structure Diagram (UX) 1 Polymers Identification Substanc ID Method (UX-320(2)) 6 GPC data GPC data GPC data of UX- 1 Monomers (UX-320(2))	s
Diagram(2)_Redacted.pdf Chemical Structure Diagram (UX 5 IES report IES Order Results 434805- 2_Redacted.pdf 1 Polymers Identification Substanc 1_D Method (UX-320(2)) 6 GPC data GPC data GPC data of UX- 1 Monomers (UX-320(2))	
2_Redacted.pdf ID Method (UX-320(2)) 6 GPC data GPC data of UX- 1 Monomers (UX-320(2))	s
6 GPC data GPC data of UX- 320(2)_Redacted.pdf	s
Y A W I W	
	l
Mark (X) this box if the data continues on the next page.	



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				L PROPER					
The information on t	this page refers to ch	emical r	number(s):	X 1	2	3	4	5 6	
notice. Identify the proper property is claimed as co provided. These measur formulations should be s you do so, as it will simp	of physical and chemical party measured, the value of confidential. Give the attacked properties should be for noted (% PMN substanulify the review and ensurenties) on of test data. This value is the confidential of the rest of the confidential o	of the prophenent number the near the near the near the the that confident in the near that confident in the that confident in the near th	perty, the units mber (found o at (100% pure) You are not re fidential inform	s in which the p n page 12) in c chemical sub- equired to sub- nation is prope	oroperty is mea column (b). The stance. Proper mit this worksh ly protected. \	asured (as e physical ties that a neet; howe ou should	s necessary) state of the re measure ever, EPA st	, and whether or neat substance d for mixtures or rongly recomme	not the should be
Prop (a		Unit	Mark X if Provided	Attachment Number (b)		Value (c)		Measured or Estimate (M or E)	CBI Mark (X) (d)
Physical state of neat	substance		X		(solid)	(liquid)	(gas)	xxx	Х
Vapor Pressure @ Temperature		°C					Torr		
Density/relative densi	ty		X		xxx		g/cm3	xxx	X
Solubility									
@ Temperati	ure XXX	°C	X		XXX		g/L	XXX	X
Solve	ent XXX								
Solubility in Water @ Temperature		°C					g/L		
Melting Temperature	*						°C		
Boiling / Sublimation temperature @		Torr					°C		
Spectra									
Dissociation constant									
Octanol / water partition	on coefficient								
Henry's Law constant									
Volatilization from wat	ter								
Volatilization from soil									
pH@ concentration									
Flammability									
Explodability									
Adsorption / Coefficie	nt								
Particle Size Distributi	on		X		xxx			xxx	Х
Other – Specify	×××		X		xxx			xxx	Х



Continuation Sheet

ID		Field						
	PHYSIC	AL AND	CHEMICA		TIES WORKS	SHEET		
	Property (a)		Mark X if Provided	Attachment Number (b)	V	/alue (c)	Measured or Estimate (M or E)	CBI Mark (X) (d)
Other – Specify	xxx				xxx		xxx	Х
Other – Specify						5		
Other – Specify					Co			
Other – Specify								
Other – Specify								
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notice. Identify the proportion is claimed as provided. These meas formulations should be you do so, as it will simple.	of physical and chemical perty measured, the value confidential. Give the attacured properties should be a so noted (% PMN substantially) the review and ensure the solution of test data. This	of the property of the property of the near the near the the the the the the the the the the	perty, the units mber (found o at (100% pure) You are not re fidential inform	s in which the p n page 12) in c o chemical sub- equired to sub- nation is prope	property is measured column (b). The physi stance. Properties tha mit this worksheet; ho rly protected. You sho	(as necessary) cal state of the at are measure owever, EPA st	, and whether or neat substance d for mixtures or rongly recomme	not the should be
	operty (a)	Unit	Mark X if Provided	Attachment Number (b)	Value (c)		Measured or Estimate (M or E)	CBI Mark (X) (d)
Physical state of nea	at substance		X		(solid) (liquid)	(gas)	xxx	Х
Vapor Pressure @ Temperature		°C			5	Torr		
Density/relative den	sity		X		xxx	g/cm3	xxx	X
Solubility								
@ Tempera		°C	X		XXX	g/L	XXX	X
Sol	vent XXX							
Solubility in Water @ Temperature		°C		Ý		g/L		
Melting Temperature	•					°C		
Boiling / Sublimatior emperature @		Torr				°C		
Spectra								
Dissociation constar	nt							
Octanol / water parti	ition coefficient							
Henry's Law consta	nt							
Volatilization from w	ater							
Volatilization from so	oil							
oH@ concentration								
Flammability								
Explodability								
Adsorption / Coeffici	ent							
Particle Size Distribu	ution		X		xxx		xxx	Х
Other – Specify	xxx		X		xxx		xxx	Х



Continuation Sheet

ID		Field					
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Pro	operty (a)		Mark X if Provided	Attachment Number (b)	Value (c)	Measured or Estimate (M or E)	CBI Mark (X) (d)
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